

ECN /ORBIT e.V. Source Separation Workshop 2003
Pres. No.11 "Separate collection in large towns - the Munich and Berlin experiences" -
Dr. W. Müller

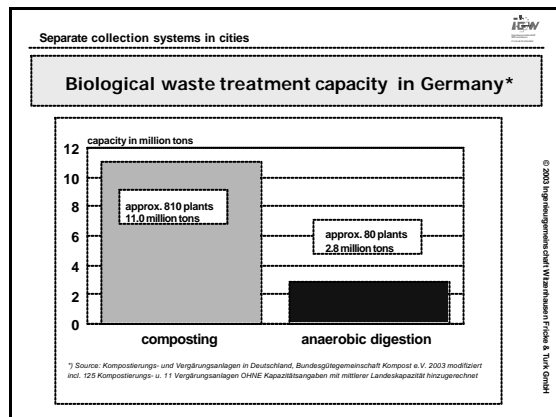
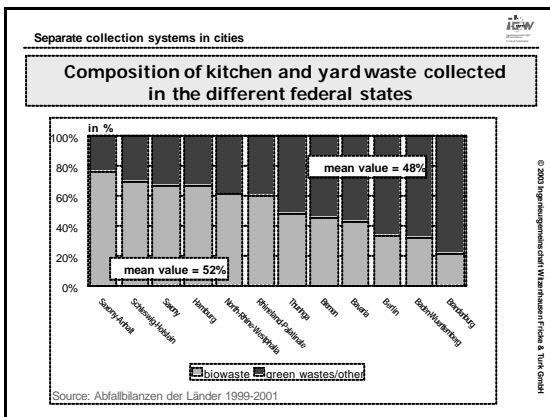
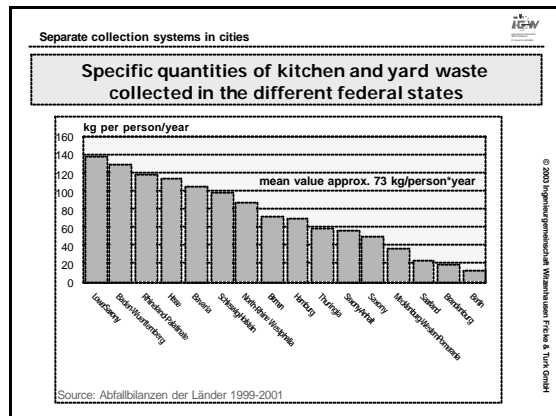
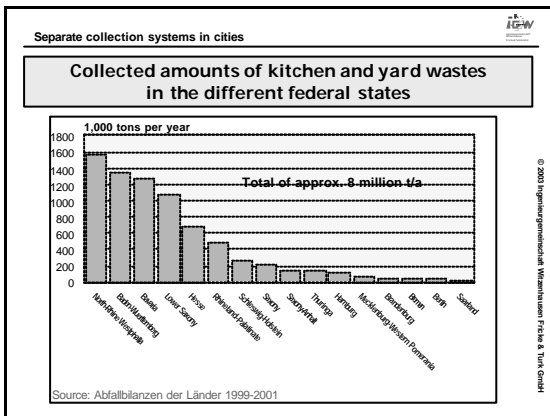
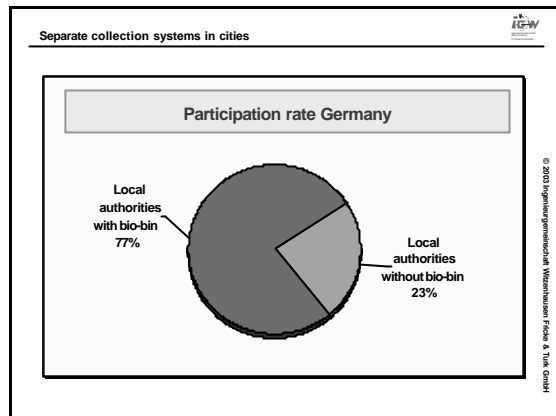
Separate collection systems in large towns

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Die KOMPOST-TONNE
 Die natürliche Abfallverwertung
 ... denn zur Natur gibt es keine Alternative.

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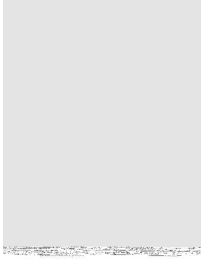


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Separate collection systems in cities

Development and implementation

- ◆ **Development**
 - Project analysis
 - Data collection
 - Project coordination
 - Strategic planning
- ◆ **PR concept**
 - Coordination of stakeholders
 - Preparation of PR concept
 - Media development
 - Selection of multipliers
- ◆ **Realization of campaign**
 - Start of PR concept
 - Press releases
 - Events
 - Consulting of households






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Media preparation

- ◆ **Concept of applied media**
- ◆ **Development of the content of complete media sets**
 - control of content and design
 - invitation to bid for services
- ◆ **Coordination of media development until printing**






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Development and implementation

Handouts




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Press releases




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Folder




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Development and implementation

Brochures for foreigners



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Development and implementation

Scientific monitoring

Klaus Fricke – Klaus Köhner – Wolfgang Müller
 Eva Rappel – Thomas Turk
 AMT FÜR ABFALLWIRTSCHAFT

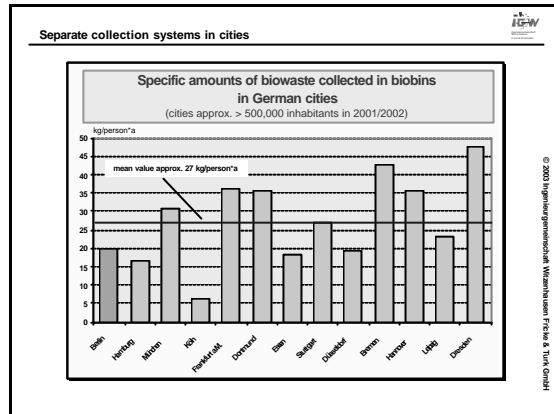
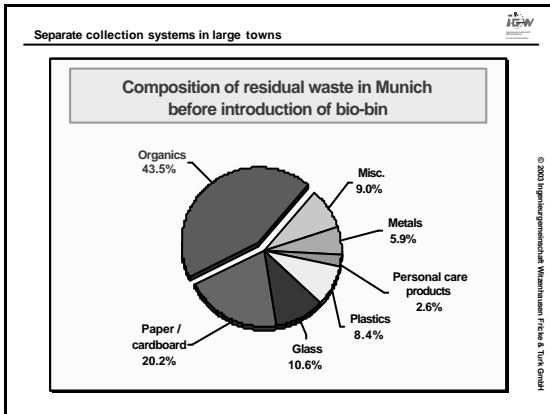
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PR campaign references

- ♦ **From 1993 to 1999:**
 Werra -Meißner-Kreis, Luxembourg (L), Stadt München, Attnang-Puchheim (A), Garmisch-Partenkirchen, ZAW Donau Wald, LK Cham, Stadt Rosenheim, LK Uelzen, Stadt Straubing, LK Kassel, LK Goslar, LK Straubing, Stadt Schwerin, LK Stade, LK Soltau-Fallingb., LK Neuburg-Schrobenhausen, LK Hildesheim, Catowice (PL), Stadt Remscheid, Stadt Solingen, Dornbirn (A), LK Holzminden, LK Hamein-Pyrmont, Stadt und LK Hildesheim, Stadt Berlin
- ♦ **Population addressed by PR work:**
 - **More than 6 million people**
 (approx. 15 % of the population in Germany that lives in areas with biowaste bin)
- ♦ **Budgets:**
 - **State capital of München:** 2,5 Mio. fee
 - **Federal capital of Berlin:** 20,0 Mio. overall budget
 - **District of Kassel:** 1,5 Mio. fee
 - **District of Holzminden:** 0,15 Mio. fee

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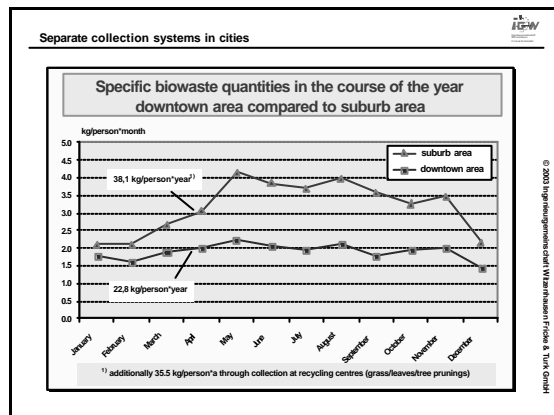
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Specific amount of biological waste depending on the settlement structure

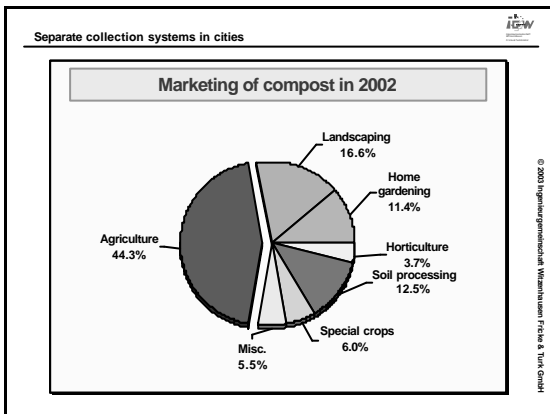
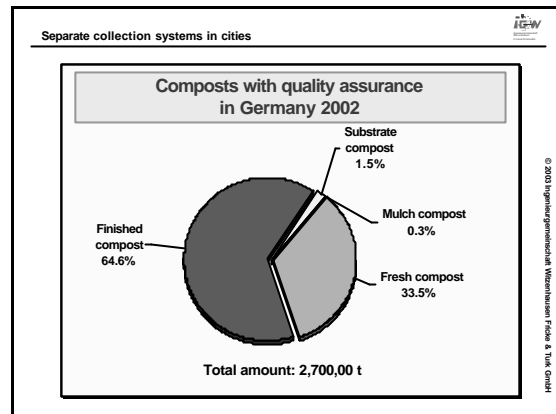
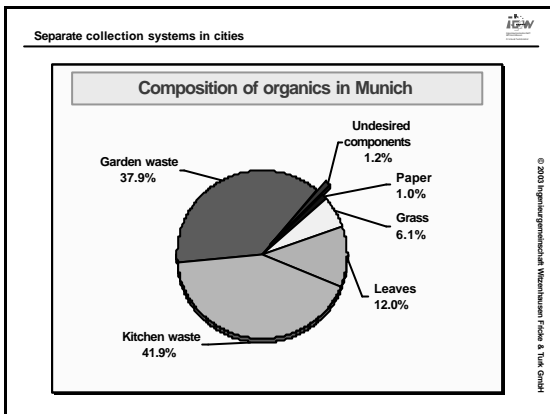
Specific amount of biological waste		City 1	City 2	City 3	City 4
- total city area	kg/person*year	35	35	30	20 ²⁾
- downtown area	kg/person*year	23	about 20	19	20
- suburbs	kg/person*year	38 ¹⁾	40-70	111	102

¹⁾ additionally approx. 36 kg/person*year through drop-off collection in recycling centers
²⁾ additionally approx. 6 kg/person*year through leaves bags collection
 with separate fee for biowaste-bin
 without separate fee for biowaste-bin

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- Separate collection systems in cities
- ### Efficiency of the biowaste bin in cities
- ◆ Factors influencing the efficiency of the biowaste bin
 - Organic waste quantities collected in biowaste bin
 ⇒ extent to which the residual waste amount to be disposed will be reduced
 - Costs of biowaste collection logistics
 - Reduction of residual waste collection logistic costs (two-week emptying possible?)
 - Amount of disposal costs for residual waste
 - Amount of recovery costs for biowaste
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- ### Efficiency of the biowaste bin in cities
- ◆ Conclusion
 - The more biowastes are collected,
 - The more logistic costs for residual waste collection can be reduced due to biowaste collection,
 - The higher the disposal costs for residual waste are,
 - The lower the recovery costs for biowaste are,
- ⇒ the bigger is the chance for an economically efficient operation of biowaste collection in cities
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- ### Summary:
- Results of different waste analyses showed that even in metropolitan areas such as Munich and Berlin compostable wastes have the largest share (approx. 40 %) of the domestic waste. Therefore Munich started the first large test of separate collection of biowastes through the biowaste bin in a city at the beginning of the nineties. The positive results of this test then led to a city-wide introduction of the biowaste bin in Munich. By now the biowaste bin is common in many cities in Germany. The paper summarizes the main results and experiences of separate collection of biowastes in Munich, Berlin and other big cities in Germany with special focus on the following points:
- essential public relation measures before and after introducing the biowaste bin,
 - system efficiency (collected specific amounts depending on the different settlement structures),
 - quality of the collected biowastes,
 - application areas of the produced compost,
 - economical parameters of biowaste collection in big cities.
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